

Claims:

1. A device for locking electrical devices, in particular power tools, with battery packs
5 for power supply, in which the electrical devices have one movable locking bar and the
battery packs have at least two recesses, or vice versa, and upon locking, the recesses
are located one after the other in the direction of a relative motion between the electrical
device and the battery pack, and after locking, the locking bar engages one of the
10 recesses, characterized in that the recesses (24, 26) are differently shaped or of different
dimensions or are offset transversely to the direction of motion; and that in different
combinations of electrical devices (2) and battery packs (4), the shape, dimensions
and/or offset of the recesses (24, 26) are each adapted to the shape, dimensions or
position of the locking bar (14; 36; 38; 40; 42) in such a way that the locking bar (14; 36;
38; 40; 42) engages either only the front recess (24) or only the rear recess (26) or
15 successively the front recess and then the rear recess (24, 26, respectively).

2. The device as defined by claim 1, characterized in that in a combination of an
electrical device (2) and battery pack (4), the contact between batteries of the battery
pack (4) and a current circuit of a consumer of the electrical device (2) is made upon
20 engagement of the locking bar (42) with the rear recess (25) and in a different
combination of an electrical device (2) and battery pack (4) is made upon engagement of
the locking bar (40) with the front recess (24).

3. The device as defined by claim 1 or 2, characterized in that protruding into one of
25 the recesses (24) is a protrusion (32), which permits the engagement of a locking bar (14;
38; 40) with a cutout (30) that receives the protrusion (32) and prevents the engagement
of a locking bar (36; 42) without such a cutout (30).

4. The device as defined by claim 3, characterized in that the bp is a rib (32) in the
30 recess (24), and the cutout is a slot (30) in the locking bar (14; 38; 40).

5. The device as defined by one of the foregoing claims, characterized in that the
recesses (24, 26, Fig. 5) are differently shaped and of different dimensions.

6. The device as defined by one of the foregoing claims, characterized in that the recesses are differently shaped and are offset from one another.

5 7. The device as defined by one of the foregoing claims, characterized in that the recesses are of different dimensions and are offset from one another.

10 8. The device as defined by one of the foregoing claims, characterized in that the locking bars (14; 36; 38; 40; 42) are located in the electrical devices (2), and the recesses (24, 26) are located in the battery packs (4).

15 9. A battery pack for locking to an electrical device, in particular a power tool, which includes a movable locking bar, and the battery pack has at least two recesses that upon locking are located one after the other in the relative motion between the electrical device and the battery pack, characterized in that the recesses (24, 26) are differently shaped or of different dimensions or are offset from one another transversely to the direction of motion.

20 10. An electrical device, in particular a power tool, for locking with a battery pack which includes a movable locking bar, and the electrical device has at least two recesses that upon locking are located one after the other in the relative motion between the electrical device and the battery pack, characterized in that the recesses (24, 26) are differently shaped or of different dimensions or are offset from one another transversely to the direction of motion.